

For Research Use Only

# Carbonic Anhydrase IX/CA9 Recombinant monoclonal antibody, PBS Only

Catalog Number: 84233-8-PBS



## Basic Information

<b>Catalog Number:</b> 84233-8-PBS	<b>GenBank Accession Number:</b> BC014950	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 768	<b>CloneNo.:</b> 241573F12
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q16790	
<b>Immunogen Catalog Number:</b> AG36941	<b>Full Name:</b> carbonic anhydrase IX	
	<b>Calculated MW:</b> 459 aa, 50 kDa	

## Applications

**Tested Applications:**  
IHC, Indirect ELISA

**Species Specificity:**  
human

## Background Information

CA9 (Carbonic anhydrase 9) may be involved in the control of cell proliferation and transformation and appears to be a novel specific biomarker for a cervical neoplasia (PMID:18703501). It is a tumor-associated antigen that has been shown to have diagnostic utility in identifying cervical dysplasia and carcinoma. The protein is present in the cytoplasmic membrane and the nucleus, with a molecular weight of 50 kDa. The molecular weight of the glycosylated form is approximately 60-70 kDa. (PMID: 31142270, PMID: 31819036)

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

For technical support and original validation data for this product please contact:

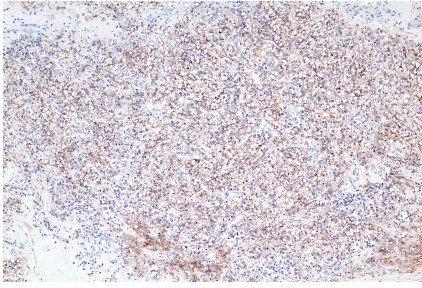
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

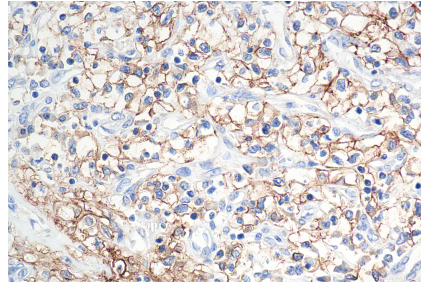
W: [ptgcn.com](http://ptgcn.com)

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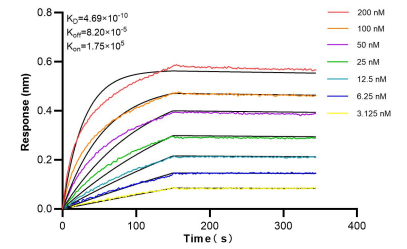
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human renal cell cancer slide using 84233-8-RR (Carbonic Anhydrase IX/CA9 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84233-8-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human renal cell cancer slide using 84233-8-RR (Carbonic Anhydrase IX/CA9 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84233-8-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 84233-8-RR against Human Carbonic Anhydrase IX/CA9 were performed. The affinity constant is 0.469 nM.